

## GILA RIVER BASIN

## 09510200 SYCAMORE CREEK NEAR FORT McDOWELL, AZ

**LOCATION**--Lat 33°41'39", long 111°32'28", in sec. 16, T.4 N., R.8 E. (unsurveyed), Maricopa County, Hydrologic Unit 15060203, in Tonto National Forest, on right bank 0.7 mi southwest of Sugarloaf Mountain, 9 mi northeast of Fort McDowell, 10 mi upstream from mouth, and 25 mi northeast of Scottsdale.

**DRAINAGE AREA**--164 mi<sup>2</sup>.

**PERIOD OF RECORD**--Dec. 1960 to current year. Prior to Oct. 1, 1963, published as "near McDowell."

**REVISED RECORDS**--WRD Ariz. 1970: Drainage area.

**GAGE**--Water-stage recorder, crest-stage gage, and concrete control. Datum of gage is 1,759.33 ft above sea level. Prior to Oct. 1, 1970, at datum 0.16 ft lower.

**REMARKS**--Records fair except for estimated daily discharges, which are poor.

**EXTREMES FOR PERIOD OF RECORD**--Maximum discharge, 24,200 ft<sup>3</sup>/s Sept. 5, 1970, gage height, 19.7 ft, from profile past gage, from rating curve extended above 3,600 ft<sup>3</sup>/s on basis of slope-area measurements at gage heights 15.0, 16.0, and 19.7 ft; no flow at times in most years.

**EXTREMES FOR CURRENT YEAR**--Peak discharges greater than base discharge of 400 ft<sup>3</sup>/s and (or) maximum (\*):

Date	Time	Discharge (ft <sup>3</sup> /s)	Gage height (ft)	Date	Time	Discharge (ft <sup>3</sup> /s)	Gage height (ft)
Dec. 30 .....	0330	2,180	4.83	Feb. 12 .....	0315	*11,000	*11.93
Jan. 4 .....	1330	6,950	9.15	Feb. 20 .....	0829	3,630	6.36

Minimum daily discharge, 0.01 ft<sup>3</sup>/s Sept. 15-16.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.02	0.11	e0.12	78	119	148	27	18	5.7	1.1	2.2	0.04
2	0.02	0.11	e0.08	40	100	141	26	17	5.7	1.1	2.8	0.03
3	0.02	0.11	0.07	665	e86	127	25	16	6.0	0.98	8.3	0.03
4	0.03	0.11	0.08	3580	e59	113	24	16	4.8	0.88	2.2	0.04
5	0.03	0.11	0.09	995	47	157	23	15	4.6	0.84	1.6	0.03
6	0.03	0.12	1.1	339	41	144	23	14	4.1	0.72	0.96	0.02
7	0.03	0.13	43	196	43	121	23	15	3.7	0.65	0.69	0.03
8	0.03	0.15	9.7	137	45	105	22	15	3.7	0.59	0.69	0.03
9	0.04	0.15	4.4	109	36	92	22	14	3.7	0.52	21	1.9
10	0.04	0.14	3.7	100	32	83	22	14	3.8	0.48	36	4.2
11	0.05	0.14	3.4	100	1720	77	21	12	3.6	0.45	6.5	0.68
12	0.06	0.14	3.4	143	5500	72	e21	11	3.5	0.39	7.2	0.15
13	0.06	0.14	2.6	98	1610	68	e20	11	3.4	0.33	27	0.03
14	0.05	0.14	1.9	77	596	62	e19	11	3.1	0.29	6.7	0.02
15	0.06	0.14	1.7	61	323	55	e18	10	2.9	0.26	3.4	0.01
16	0.05	0.14	1.6	48	265	52	18	9.9	2.7	0.21	2.0	0.01
17	0.06	0.14	1.4	39	208	50	18	9.5	e1.4	0.18	1.1	0.02
18	0.07	0.15	1.4	e32	279	49	17	9.3	e1.3	0.22	0.76	0.04
19	0.07	0.15	1.3	e24	1910	47	e17	9.0	e1.2	0.25	0.54	0.05
20	0.05	0.17	1.2	e19	1960	49	e17	8.8	e1.1	0.20	e0.43	0.09
21	0.08	0.19	1.2	17	e670	47	e16	8.3	e1.0	0.15	e0.28	0.21
22	0.08	0.21	e0.93	15	e594	42	17	7.9	2.0	0.09	e0.17	0.23
23	0.07	0.25	e0.82	13	e416	41	21	7.4	1.9	0.10	e0.09	0.31
24	0.07	0.29	e0.80	12	351	39	98	7.2	1.8	9.6	e0.05	0.21
25	0.07	0.31	e0.70	11	299	45	40	6.5	1.7	0.85	e0.05	0.13
26	0.07	e0.32	e0.65	15	241	45	27	6.1	1.5	34	e0.04	0.03
27	0.07	e0.28	e0.63	182	201	39	22	6.5	1.4	58	e0.03	0.03
28	0.09	e0.24	0.80	159	169	36	20	7.1	1.4	11	e0.03	0.03
29	0.09	e0.20	775	115	---	35	20	7.1	1.3	4.7	e0.03	0.02
30	0.10	e0.16	961	168	---	33	19	6.6	1.2	3.0	e0.02	0.04
31	0.11	---	179	143	---	30	---	6.1	---	4.1	0.04	---
TOTAL	1.77	5.14	2003.77	7730	17920	2244	723	332.3	85.2	136.23	132.90	8.69
MEAN	0.06	0.17	64.6	249	640	72.4	24.1	10.7	2.84	4.39	4.29	0.29
MAX	0.11	0.32	961	3580	5500	157	98	18	6.0	58	36	4.2
MIN	0.02	0.11	0.07	11	32	30	16	6.1	1.0	0.09	0.02	0.01
AC-FT	3.5	10	3970	15330	35540	4450	1430	659	169	270	264	17
CFSM	0.00	0.00	0.39	1.52	3.90	0.44	0.15	0.07	0.02	0.03	0.03	0.00
IN.	0.00	0.00	0.45	1.75	4.06	0.51	0.16	0.08	0.02	0.03	0.03	0.00

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1961 - 2005, BY WATER YEAR (WY)

(WY)	1973	1973	1966	1993	1980	1978	1973	1973	1979	1994	1992	1970
MEAN	6.32	6.35	40.3	61.8	88.0	86.0	24.4	6.64	2.19	1.84	4.06	3.82
MIN	194	72.3	426	1065	852	881	120	51.7	20.8	15.4	52.3	92.6

(WY)	1961	1961	1963	1963	1990	2002	2002	1961	1961	1962	1961	1962
MIN	0.00	0.00	0.00	0.00	0.00	0.02	0.01	0.00	0.00	0.00	0.00	0.00

SUMMARY STATISTICS FOR 2004 CALENDAR YEAR FOR 2005 WATER YEAR WATER YEARS 1961 - 2005

ANNUAL TOTAL	2263.30	31323.00										
ANNUAL MEAN	6.18	85.8										
HIGHEST ANNUAL MEAN												
LOWEST ANNUAL MEAN												
HIGHEST DAILY MEAN	961	Dec 30	5500	Feb 12	8300	Mar 2	1978					
LOWEST DAILY MEAN	0.00	Jan 18	0.01	Sep 15	0.00	Oct 1	1960					
ANNUAL SEVEN-DAY MINIMUM	0.00	Jun 14	0.03	Oct 1	0.00	Oct 1	1960					
ANNUAL RUNOFF (AC-FT)	4490		62130		19840							
ANNUAL RUNOFF (CFSM)	0.038		0.523		0.167							
ANNUAL RUNOFF (INCHES)	0.51		7.10		2.27							
10 PERCENT EXCEEDS	0.81		131		40							
50 PERCENT EXCEEDS	0.05		3.6		0.49							
90 PERCENT EXCEEDS	0.00		0.05		0.00							